

Missouri Department of Natural Resources

## Total Maximum Daily Load Information Sheet

### Clear Fork

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#### Water Body Segment at a Glance:

**County:** Johnson  
**Nearby Cities:** Knob Noster  
**Length of impaired segment:** 24.5 miles  
**Length of impairment within segment:** 3.0 miles  
**Pollutant:** Low Dissolved Oxygen  
**Source:** Knob Noster Wastewater Treatment Facility  
**Water Body ID:** 0935



**Scheduled for TMDL development:** 2016

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#### Description of the Problem

##### Beneficial uses of Clear Fork

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)
- Whole Body Contact Recreation

##### Use that is impaired

- Protection of Warm Water Aquatic Life

##### Standards that apply

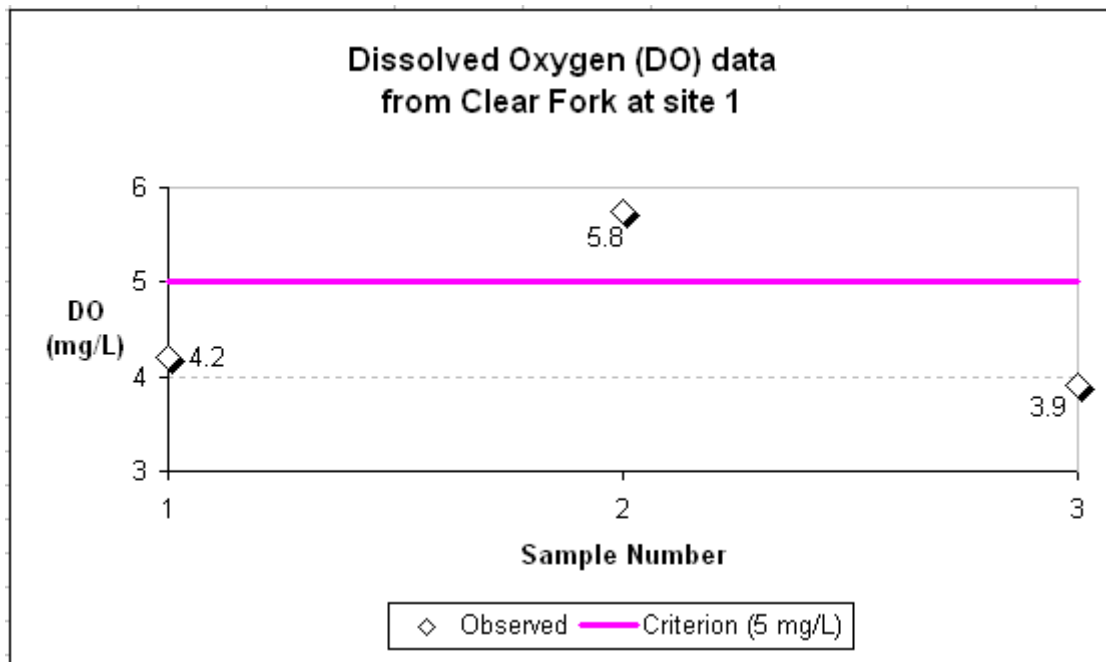
- The Missouri Water Quality Standards are found in 10 CSR 20-7.031. The chronic criterion for dissolved oxygen in streams, found in Table A of this section, is 5.0 mg/L (milligrams per liter or parts per million).

##### Background information and water quality data

Clear Fork passes along the west side of Knob Noster in Johnson County, Mo., and then flows northwest until it joins the Blackwater River. It was listed due to low dissolved oxygen.

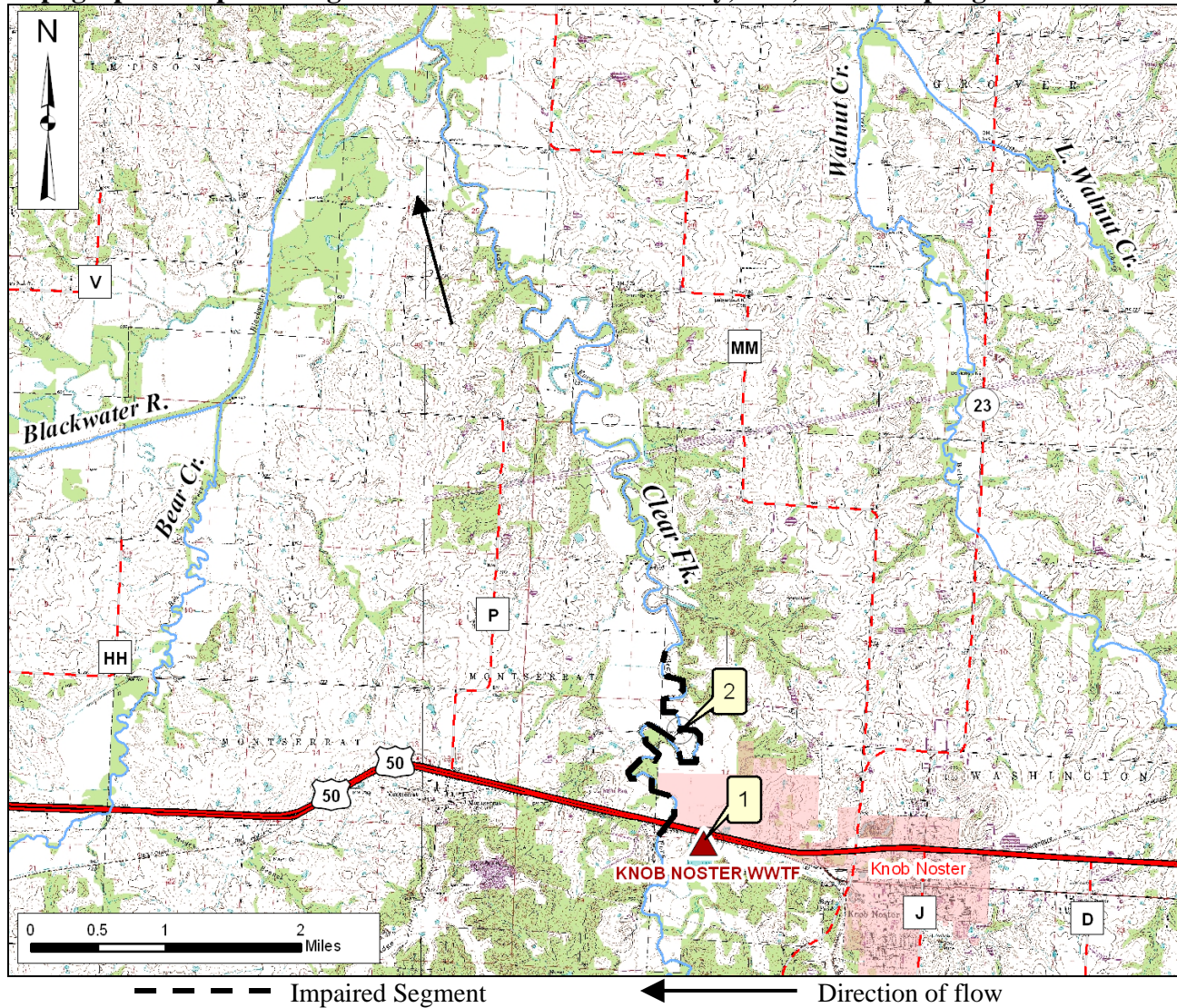
Dissolved oxygen is important as many aquatic organisms require high levels of oxygen to survive. For dissolved oxygen, if more than 10 percent of measurements in a water body fail to meet the water quality criterion, that water body is judged to be impaired. In the case of Clear Fork, two of 3 samples (66.7 percent) at one site did not meet the criterion in 2002. However, all five samples

collected at a second site met the criterion. Due to the small sample size, the department determined that the data set was inadequate for making a scientifically defensible decision regarding impairment and gave the creek high priority for additional monitoring, but did not recommend it for the 303(d) list. The U.S. Environmental Protection Agency, however, countered that the department could not justify NOT listing the creek since the data met our listing methodology criteria. Therefore, Clear Fork was placed on the 2004-06 List.



A map showing the location of the sites is on the next page.

# **Topographic Map showing Clear Fork in Johnson County, Mo., with Sampling Sites**



## **Sample Sites**

- 1 – Clear Fork at County Road 751
- 2 – Knob Noster WWTF\* outfall

\*WWTF = wastewater treatment facility

## **For more information call or write:**

Missouri Department of Natural Resources  
 Water Protection Program  
 P.O. Box 176, Jefferson City, MO 65102-0176  
 1-800-361-4827 or 573-751-1300 office or 573-522-9920 fax  
 Program Home Page: [www.dnr.mo.gov/env/wpp/index.html](http://www.dnr.mo.gov/env/wpp/index.html)